



11-08-02

PATENT  
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2612  
#6  
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1-28-03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:  
Kanade et al.

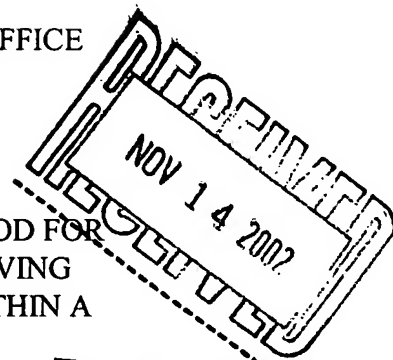
Group Art Unit: 2612

Examiner:

Serial No.: 10/074,314

Filed: February 12, 2002

SYSTEM AND METHOD FOR  
SERVOING ON A MOVING  
FIXATION POINT WITHIN A  
DYNAMIC SCENE



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INFORMATION DISCLOSURE STATEMENT

Technology Center 2600

Pittsburgh, Pennsylvania 15222

November 7, 2002

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Applicants, in accordance with their duty of disclosure pursuant to 37 C.F.R. § 1.56, hereby advise the United States Patent and Trademark Office of the references listed on the accompanying form PTO/SB/08A Information Disclosure Statement. A copy of each of the cited references is herewith enclosed.

Applicants note that although the cited references may be relevant to the examination of the above-referenced application, under 37 C.F.R. § 1.97(h), the filing of this Information

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Date of Deposit November 7, 2002

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Patricia A. Mack

Disclosure Statement "shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b)."

Pursuant to 37 C.F.R. § 1.97(b)(3), Applicants submit that no fee is necessary for consideration of this Information Disclosure Statement because an Office Action on the merits has not yet been mailed. Nevertheless, the Commissioner is hereby authorized to charge any additionally required fees necessary for consideration of this Information Disclosure Statement to Account No. 11-1110.

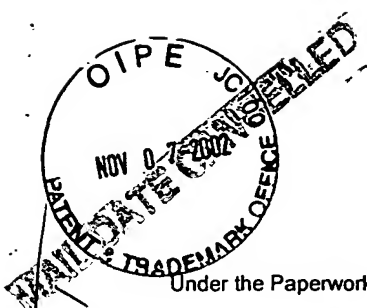
Respectfully submitted,



Mark G. Knedeisen  
Reg. No. 42,747

KIRKPATRICK & LOCKHART LLP  
Henry W. Oliver Building  
535 Smithfield Street  
Pittsburgh, PA 15222

Ph. (412) 355-6342  
Fax (412) 355-6501



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

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|   |   |    |   | Application Number       | 10/074,314        |
|   |   |    |   | Filing Date              | February 12, 2002 |
|   |   |    |   | First Named Inventor     | Kanade            |
|   |   |    |   | Art Unit                 | 2612              |
| Examiner Name   |   |    |   |                          |                   |
| Sheet   | 1 | of | 2 | Attorney Docket Number   | 010129            |

| U.S. PATENT DOCUMENTS |                          |  |                                |  |   |
|-----------------------|--------------------------|--|--------------------------------|--|---|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |                          | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
|                       |                          | 5,917,937                                  | Jun 29, 1999                   | Szeliski et al.                                    |   |
|                       |                          | 6,137,491                                  | Oct 24, 2000                   | Szeliski   |   |
|                       |                          | 6,084,979                                  | Jul 4, 2000                    | Kanade et al.                                      |   |
|                       |                          |  |                                |  |   |
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|                          |                          | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup><br>(if known) |                                |   |  |                |
|                          |                          | EP 0 529 317 A1  | Mar 03, 1993                   | Sensomatic<br>Electronics<br>Corporation              |  |                |
|                          |                          |  |                                |   |  |                |
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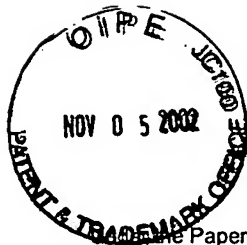
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|   |   |           |   | <b>Examiner Name</b>          |                   |
| <b>Sheet</b>  | 2 | <b>of</b> | 2 | <b>Attorney Docket Number</b> | 010129            |

| <b>OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS</b> |                                 |   |                      |
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| <b>Examiner<br/>Initials*</b>                             | <b>Cite<br/>No.<sup>1</sup></b> | <b>Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the<br/>item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue<br/>number(s), publisher, city and/or country where published</b> | <b>T<sup>2</sup></b> |
|   |                                 | Kanade, T. et al.: "Virtualized Reality: Constructing Virtual Worlds From Real Scenes" IEEE Multimedia, Jan - Mar 1997, IEEE, USA, Vol. 4, No. 1, pages 34 - 47.  |                      |
|   |                                 | Narayanan, PJ et al.: "Constructing Virtual Worlds Using Dense Stereo" 6 <sup>th</sup> International Conference On Computer Vision. ICCV '98. Bombay, Jan. 4-7, 1998, IEEE International Conference On Computer Vision, New York, NY: IEEE, US, 1998, pages 3-10.             |                      |
|   |                                 | Tsai R Y: "A Versatile Camera Calibration Technique For High-Accuracy 3D Machine Vision Metrology Using Off-The-Shelf TV Cameras and Lenses," IEEE Journal of Robotics and Automation, IEEE Inc. New York, US, vol. RA-3, no. 4, August 1987 (1987-08), pages 323-344.        |                      |
|   |                                 | Vedula S et al.: "Modeling, combining and rendering dynamic real-world events from image sequences," VSMM98. 4 <sup>th</sup> International Conference On Virtual Systems and Multimedia, 1998, pages 326-332.   |                      |
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